Luis Alvarado-Labarca

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EDUCATION

University of Utah

Bachelor of Science/Master of Science in Computer Science, GPA: 3.61   Jan. 2022 – Dec. 2026

Future Coursework

Natural Language, Deep Learning, Adv. Database Systems

Completed Coursework

Machine Learning, Visualization for Data Science, Database Systems, Data Mining, Foundation of Data Analysis, Computer Security, Data Structures & Algorithms, Software Practice II, Computer Systems, Programming Languages

Awards

Hispanic Scholarship Fund Scholar 2021 & 2023, Utah Flagship Scholarship 2020, QuestBridge Finalist 2020, IBM Accelerate Program Participant 2023

SKILLS

Languages

(*Proficient*): Python, Java, C#, JavaScript, TypeScript, HTML, CSS, SQL (*Familiar*): C++, C, LINQ, AppsScript

Technologies

(*Frameworks*): React Native, Expo, Jest (Libraries): React, scikit-learn, NumPy, Pandas, D3.js

(*Version Control*): Git (*Tools*) Node.js, Bash, Docker, AWS, Google Cloud (Other): JSON, Figma, XML, Excel, Agile

PROJECTS

Passenger Pilot App – *TypeScript, Node.js, React Native, React, Agile*   Aug. 2024 – May 2025

A cross-platform application focused on road-tripping. The app provided users with a custom route based on driving preferences and helped road trippers with expense tracking and collaboration among travelers.

- Constructing the UI/UX screens related to expense tracking and trip collaboration as well as connecting to their respective internal API calls
- Authoring interfaces for results from Google Cloud Vision AI, Google Generative AI, and AWS S3 API requests
- Designed the ER diagram for the backend MySQL database, which our developers used to build the database
- Reviewing 4 merge requests a week across the full stack by examining functionality, code style, and edge cases

Learning Management System Database Backend (LMS Database) – *C#, SQL, LINQ*   Jan. 2024 – Apr. 2024

A backend server that would receive internal API requests from the LMS frontend and handle those requests.

- Designed and developed a backend database using C#, SQL, and LINQ for a LMS web application, which included features like enrollment, assignment creation, assignment grading, and course catalogs
- Implemented C# controllers to handle UX interactions from the web app, updating the MySQL database
- Connected the MySQL database to the codebase using MySQLConnector, ADO.NET, and Entity Framework as the ORM

Salt Lake City Public Library Seed Program Inventory Dashboard – *AppsScript*   Aug. 2023 – Oct. 2023

An automated inventory management system that employees and patrons could use to update and check inventory.

- Developed Google Sheets inventory system for the Salt Lake City Public Library's seed-sharing program using Google Forms for data collection and updates
- Automated inventory management using AppsScript to update inventory availability, enabling analysis of seed checkouts and facilitating easier inventory searches, while improving efficiency by eliminating the need for manual updates
- Constructed a dashboard UI/UX in Google Sheets that displayed patron usage and seed checkouts of the seed library

WORK EXPERIENCE

Kahlert School of Computing — *Teaching Assistant*   Aug. 2024 – Present

- Assisting with Intro to Computer Programming by working with the professor to support learning for students
- Hosting weekly office hours and labs for 10–30 students to help with practice problems and homework questions

Salt Lake City Public Library — *Library Assistant*   Jan. 2022 – Oct. 2023

- Collaborated with librarians to improve library services and programs for community members
- Involved in supporting digital inclusion among community members through library technology programs